

Appendix table 3-1

**Associate's degrees awarded, by sex and field: 1990–98**

Sex and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all fields.....	459,048	486,297	508,704	519,098	546,574	544,094	540,644	546,031	549,191
Total science and engineering.....	72,748	71,026	70,297	71,335	75,132	70,590	67,820	68,328	71,006
Physical sciences.....	1,212	1,218	1,086	1,224	1,413	1,459	1,560	1,540	1,518
Earth, atmospheric, and ocean sciences.....	33	28	143	168	226	186	189	191	180
Mathematics.....	760	670	744	743	766	783	759	793	843
Computer science.....	7,840	7,970	9,632	9,532	9,868	9,627	9,401	10,632	12,899
Agricultural sciences.....	1,696	1,724	1,978	1,896	1,938	1,910	1,895	1,865	2,007
Biological sciences.....	1,055	1,142	1,378	1,499	1,907	1,901	2,074	2,181	2,176
Psychology.....	1,116	997	1,209	1,235	1,756	1,600	1,584	1,606	1,760
Social sciences.....	3,693	3,090	3,837	4,597	4,863	4,477	5,090	5,075	5,156
Engineering.....	2,405	2,513	2,715	2,526	2,844	2,285	2,048	1,888	2,107
Science technologies.....	903	953	969	1,013	1,150	970	965	893	800
Engineering technologies.....	46,938	45,106	40,592	40,946	42,414	39,190	35,982	35,221	35,163
Other science and engineering technologies.....	110	70	172	52	265	364	556	556	634
Interdisciplinary or other sciences.....	4,987	5,545	5,842	5,904	5,722	5,838	5,717	5,887	5,763
Men, all fields.....	192,433	200,043	208,856	213,263	222,247	219,704	213,090	212,698	215,888
Total science and engineering.....	55,177	53,405	51,204	51,639	53,414	50,238	46,750	46,155	48,075
Physical sciences.....	706	679	591	663	783	773	830	733	707
Earth, atmospheric, and ocean sciences.....	12	23	116	130	162	148	131	126	128
Mathematics.....	489	406	464	428	437	438	464	444	490
Computer science.....	3,942	4,032	4,723	4,695	4,947	4,996	4,862	5,720	7,137
Agricultural sciences.....	1,033	1,119	1,325	1,280	1,233	1,300	1,250	1,196	1,267
Biological sciences.....	444	457	573	613	770	757	830	789	793
Psychology.....	286	257	338	282	433	446	405	376	603
Social sciences.....	1,539	1,154	1,573	1,816	1,784	1,625	1,656	1,635	1,696
Engineering.....	2,117	2,233	2,360	2,196	2,474	1,978	1,779	1,617	1,784
Science technologies.....	605	574	573	617	703	623	587	499	426
Engineering technologies.....	41,435	39,777	35,666	36,129	36,899	34,196	30,947	29,990	29,949
Other science and engineering technologies.....	96	62	156	44	245	331	514	521	590
Interdisciplinary or other sciences.....	2,473	2,632	2,746	2,746	2,544	2,627	2,495	2,509	2,505
Women, all fields.....	266,615	286,254	299,848	305,835	324,327	324,390	327,554	333,333	333,303
Total science and engineering.....	17,571	17,621	19,093	19,696	21,718	20,352	21,070	22,173	22,931
Physical sciences.....	506	539	495	561	630	686	730	807	811
Earth, atmospheric, and ocean sciences.....	21	5	27	38	64	38	58	65	52
Mathematics.....	271	264	280	315	329	345	295	349	353
Computer science.....	3,898	3,938	4,909	4,837	4,921	4,631	4,539	4,912	5,762
Agricultural sciences.....	663	605	653	616	705	610	645	669	740
Biological sciences.....	611	685	805	886	1,137	1,144	1,244	1,392	1,383
Psychology.....	830	740	871	953	1,323	1,154	1,179	1,230	1,157
Social sciences.....	2,154	1,936	2,264	2,781	3,079	2,852	3,434	3,440	3,460
Engineering.....	288	280	355	330	370	307	269	271	323
Science technologies.....	298	379	396	396	447	347	378	394	374
Engineering technologies.....	5,503	5,329	4,926	4,817	5,515	4,994	5,035	5,231	5,214
Other science and engineering technologies.....	14	8	16	8	20	33	42	35	44
Interdisciplinary or other sciences.....	2,514	2,913	3,096	3,158	3,178	3,211	3,222	3,378	3,258

NOTE: Unlike in other degree tables, the science and engineering total includes degrees in science and engineering technologies.

SOURCE: Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

Appendix table 3-2

**Associate's degrees awarded, by citizenship, race/ethnicity, and field: 1990-98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all fields.....	459,048	486,297	508,704	519,098	546,574	544,094	540,644	546,031	549,191
Total science and engineering.....	75,770	73,835	68,067	69,650	73,193	68,945	65,713	66,412	69,430
Physical sciences <sup>a</sup> .....	1,248	1,249	1,229	1,392	1,639	1,459	1,749	1,731	1,698
Mathematics.....	760	670	744	743	765	783	758	792	843
Computer science.....	7,840	7,970	9,602	9,512	9,767	9,627	9,198	10,080	12,147
Agricultural sciences.....	1,983	2,039	2,252	2,227	2,247	1,910	2,278	2,274	2,384
Biological sciences.....	1,055	1,142	1,378	1,471	1,907	1,901	2,074	2,181	2,176
Psychology.....	1,116	997	1,209	1,237	1,756	1,600	1,584	1,608	1,763
Social sciences.....	3,002	2,577	3,232	4,011	4,263	4,477	4,158	4,190	4,338
Engineering.....	2,402	2,510	2,715	2,525	2,828	2,285	2,030	1,865	2,100
Science technologies.....	903	953	889	905	1,040	970	875	815	747
Engineering technologies.....	44,739	42,595	38,015	38,473	39,889	39,190	33,597	32,893	32,919
Other science and engineering technologies.....	110	70	172	52	265	364	556	556	634
Interdisciplinary or other sciences.....	11,860	12,312	7,859	8,494	8,466	5,838	8,605	9,158	9,379
White, non-Hispanic, all fields.....	343,629	376,869	388,049	392,637	419,962	408,126	403,072	400,307	396,735
Total science and engineering.....	55,240	58,124	50,532	50,794	55,825	50,682	48,158	47,819	49,508
Physical sciences <sup>a</sup> .....	974	968	848	995	1,230	1,024	1,183	1,159	1,107
Mathematics.....	538	477	522	509	497	479	439	492	501
Computer science.....	5,166	5,577	6,109	6,006	6,636	6,471	6,096	6,630	7,907
Agricultural sciences.....	1,775	1,847	2,038	2,017	1,959	1,633	2,067	2,079	2,136
Biological sciences.....	709	759	992	977	1,304	1,197	1,356	1,310	1,304
Psychology.....	840	738	918	894	1,321	1,146	1,094	1,087	1,070
Social sciences.....	1,912	1,609	1,974	2,347	2,729	2,628	2,458	2,412	2,526
Engineering.....	1,770	1,867	2,086	1,886	2,133	1,658	1,484	1,340	1,432
Science technologies.....	564	693	640	644	794	683	637	579	535
Engineering technologies.....	31,699	33,792	28,242	28,442	31,457	29,646	25,480	24,572	24,313
Other science and engineering technologies.....	69	51	132	28	211	275	457	447	523
Interdisciplinary or other sciences.....	10,198	10,714	6,879	7,044	6,784	4,866	6,590	6,871	7,261
Asian/Pacific Islander, all fields.....	12,687	15,069	15,369	16,280	18,555	20,976	22,630	23,882	23,909
Total science and engineering.....	2,541	2,507	2,565	2,730	2,801	3,057	3,168	3,689	3,662
Physical sciences <sup>a</sup> .....	91	86	106	76	122	124	165	180	173
Mathematics.....	75	65	64	69	77	93	103	86	100
Computer science.....	336	323	484	459	489	513	512	639	785
Agricultural sciences.....	8	8	10	6	10	10	7	5	9
Biological sciences.....	80	126	137	146	172	190	216	264	248
Psychology.....	18	24	34	33	37	57	57	63	53
Social sciences.....	92	64	98	183	192	248	263	246	262
Engineering.....	151	146	185	136	184	152	146	148	165
Science technologies.....	16	31	29	38	35	56	54	63	35
Engineering technologies.....	1,499	1,496	1,311	1,358	1,258	1,458	1,391	1,514	1,447
Other science and engineering technologies.....	1	4	4	2	0	13	22	24	0
Interdisciplinary or other sciences.....	265	220	209	300	347	267	397	457	385

See explanatory information and SOURCE at end of table

Appendix table 3-2

**Associate's degrees awarded, by citizenship, race/ethnicity, and field: 1990–98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Black, all fields.....	32,882	37,854	38,721	41,260	45,597	45,923	49,245	51,588	52,957
Total science and engineering.....	4,785	5,264	4,653	5,291	6,022	5,741	5,949	6,141	6,435
Physical sciences <sup>a</sup> .....	57	78	71	70	90	93	112	105	126
Mathematics.....	20	27	27	26	39	45	36	37	33
Computer science.....	856	894	1,066	978	1,081	1,046	1,088	1,135	1,459
Agricultural sciences.....	25	14	15	15	20	23	21	14	12
Biological sciences.....	71	57	75	93	96	147	114	140	155
Psychology.....	110	103	78	109	149	126	147	126	112
Social sciences.....	313	332	342	471	415	669	457	526	469
Engineering.....	88	126	135	201	179	148	134	131	109
Science technologies.....	36	69	60	63	91	72	97	86	78
Engineering technologies.....	2,648	3,030	2,445	2,698	3,197	3,015	2,883	2,899	3,046
Other science and engineering technologies.....	25	11	21	20	37	35	75	83	86
Interdisciplinary or other sciences.....	593	601	389	617	718	415	897	964	876
Hispanic, all fields.....	24,569	29,019	30,253	33,015	35,557	38,499	39,115	42,784	45,452
Total science and engineering.....	4,006	4,323	4,397	4,962	5,201	5,513	5,409	5,651	5,880
Physical sciences <sup>a</sup> .....	41	45	42	52	92	70	109	110	122
Mathematics.....	65	55	63	67	85	99	108	110	120
Computer science.....	526	622	855	1,019	989	1,035	923	1,039	1,237
Agricultural sciences.....	70	57	70	88	109	136	89	77	85
Biological sciences.....	104	130	126	160	203	208	221	276	289
Psychology.....	113	88	116	141	154	193	179	210	180
Social sciences.....	272	313	369	472	549	586	549	601	616
Engineering.....	98	153	132	153	148	161	132	112	196
Science technologies.....	57	94	111	97	87	91	51	59	58
Engineering technologies.....	2,298	2,411	2,317	2,398	2,478	2,777	2,644	2,570	2,528
Other science and engineering technologies.....	10	4	14	1	4	28	1	2	1
Interdisciplinary or other sciences.....	393	396	224	366	395	199	512	595	570
American Indian/Alaskan Native, all fields.....	3,290	3,772	3,874	4,213	4,879	5,352	5,221	5,520	6,161
Total science and engineering.....	430	544	446	561	715	718	755	712	859
Physical sciences <sup>a</sup> .....	4	7	5	7	20	22	26	21	33
Mathematics.....	14	13	8	15	11	13	9	2	13
Computer science.....	70	78	61	101	105	111	127	117	144
Agricultural sciences.....	21	37	38	41	69	54	48	57	65
Biological sciences.....	13	22	15	25	36	40	42	46	37
Psychology.....	9	16	31	18	38	35	42	38	37
Social sciences.....	59	63	75	100	122	121	159	136	143
Engineering.....	12	21	14	8	18	22	11	25	22
Science technologies.....	2	10	3	4	6	10	2	3	14
Engineering technologies.....	168	232	175	210	263	286	242	211	262
Other science and engineering technologies.....	0	0	0	0	0	3	1	0	24
Interdisciplinary or other sciences.....	62	52	26	39	47	23	72	56	65

See explanatory information and SOURCE at end of table

Appendix table 3-2

**Associate's degrees awarded, by citizenship, race/ethnicity, and field: 1990–98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Other/unknown race/ethnicity, all fields.....	36,054	16,737	24,411	22,669	11,855	15,307	11,339	11,351	11,932
Total science and engineering.....	7,900	2,134	4,415	4,277	1,506	2,118	1,211	1,401	1,582
Physical sciences <sup>a</sup> .....	48	35	113	125	29	49	68	62	62
Mathematics.....	30	17	22	10	17	15	15	21	27
Computer science.....	735	321	814	712	224	191	209	261	284
Agricultural sciences.....	66	55	49	27	35	36	28	23	25
Biological sciences.....	54	26	0	32	40	42	65	67	61
Psychology.....	19	20	19	25	33	24	33	45	253
Social sciences.....	313	148	307	318	101	90	111	125	162
Engineering.....	213	129	83	63	77	67	53	42	43
Science technologies.....	227	45	40	48	23	44	25	17	13
Engineering technologies.....	5,960	1,108	3,021	2,987	822	1,582	625	681	611
Other science and engineering technologies.....	5	0	0	1	13	5	0	0	0
Interdisciplinary or other sciences.....	278	265	60	54	121	22	47	119	103
Temporary residents, all fields.....	5,937	6,977	8,027	9,024	10,169	9,911	10,022	10,599	12,045
Total science and engineering.....	868	939	1,059	1,035	1,123	1,116	1,063	1,294	1,785
Physical sciences <sup>a</sup> .....	33	30	44	67	56	77	86	94	75
Mathematics.....	18	16	38	47	39	39	48	44	49
Computer science.....	151	155	213	237	243	260	243	259	331
Agricultural sciences.....	18	21	32	33	45	18	18	19	52
Biological sciences.....	24	22	33	38	56	77	60	78	82
Psychology.....	7	8	13	17	24	19	32	39	58
Social sciences.....	41	48	67	120	155	135	161	144	160
Engineering.....	70	68	80	78	89	77	70	67	133
Science technologies.....	1	11	6	11	4	14	9	8	14
Engineering technologies.....	467	526	504	380	414	426	332	446	712
Other science and engineering technologies.....	0	0	1	0	0	5	0	0	0
Interdisciplinary or other sciences.....	71	64	72	74	54	46	90	96	119

<sup>a</sup>In this table, the physical sciences include the earth, atmospheric, and ocean sciences as well as physics, astronomy, and chemistry. See notes for more information.

**NOTES:** Data on race/ethnicity are for U.S. citizens and permanent residents only and do not include students on temporary visas. Because these data were collected on broad fields of study only until 1994, the trend data could not be adjusted to the exact field taxonomies used by the National Science Foundation. Also, unlike in other degree tables, the science and engineering total includes degrees in science and engineering technologies.

**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

Appendix table 3-3

**Associate's degrees awarded in science and engineering, by citizenship, race/ethnicity, sex, and field: 1998**

Citizenship, race/ethnicity, and sex	Total science and engineering	Physical sciences <sup>a</sup>	Mathematics	Computer science	Agricultural sciences	Biological sciences	Psychology	Social sciences	Engineering	Science technologies	Engineering technologies	Other S&E technologies	Interdisciplinary/other sciences
Total, all races/ethnicities.....	71,128	1,698	843	12,147	2,384	2,176	1,763	4,338	2,100	747	32,919	634	9,379
Male.....	48,085	835	490	6,683	1,605	793	603	1,602	1,779	384	28,184	590	4,537
Female.....	23,043	863	353	5,464	779	1,383	1,160	2,736	321	363	4,735	44	4,842
White, non-Hispanic.....	50,615	1,107	501	7,907	2,136	1,304	1,070	2,526	1,432	535	24,313	523	7,261
Male.....	34,874	565	286	4,564	1,461	481	242	931	1,219	297	20,926	485	3,417
Female.....	15,741	542	215	3,343	675	823	828	1,595	213	238	3,387	38	3,844
Asian/Pacific Islander.....	3,662	173	100	785	9	248	53	262	165	35	1,447	0	385
Male.....	2,429	83	62	451	6	94	23	94	140	11	1,282	0	183
Female.....	1,233	90	38	334	3	154	30	168	25	24	165	0	202
Black, non-Hispanic.....	6,561	126	33	1,459	12	155	112	469	109	78	3,046	86	876
Male.....	4,083	50	14	622	10	60	38	171	85	33	2,455	80	465
Female.....	2,478	76	19	837	2	95	74	298	24	45	591	6	411
Hispanic.....	6,002	122	120	1,237	85	289	180	616	196	58	2,528	1	570
Male.....	3,866	59	68	651	53	86	47	216	168	29	2,175	1	313
Female.....	2,136	63	52	586	32	203	133	400	28	29	353	0	257
American Indian/Alaskan Native.....	859	33	13	144	65	37	37	143	22	14	262	24	65
Male.....	478	12	9	60	35	17	12	42	17	4	210	24	36
Female.....	381	21	4	84	30	20	25	101	5	10	52	0	29
Other/unknown race/ethnicity.....	1,644	62	27	284	25	61	253	162	43	13	611	0	103
Male.....	1,191	35	18	149	15	23	225	80	37	5	536	0	68
Female.....	453	27	9	135	10	38	28	82	6	8	75	0	35
Temporary resident.....	1,785	75	49	331	52	82	58	160	133	14	712	0	119
Male.....	1,164	31	33	186	25	32	16	68	113	5	600	0	55
Female.....	621	44	16	145	27	50	42	92	20	9	112	0	64

<sup>a</sup>In this table, the physical sciences include the earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

**NOTES:** Data on race/ethnicity are for U.S. citizens and permanent residents only and do not include students on temporary visas. Also, unlike in other degree tables, the science and engineering total includes degrees in science and engineering technologies.

**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey.

Appendix table 3-4

**Bachelor's degrees awarded, by sex and field: 1990-98**

Sex and year	All fields	Science and engineering fields									
		Total science and engineering	Physical sciences	Earth, atmospheric & ocean sciences	Mathematics	Computer science	Agricultural/biological sciences	Psychology	Social sciences		
Number of degrees											
Total											
1990.....	1,062,151	329,094	13,425	2,776	14,674	27,695	46,451	54,018	105,350	64,705	733,057
1991.....	1,107,997	337,675	13,678	2,728	14,784	25,410	48,783	58,893	111,212	62,187	770,322
1992.....	1,150,072	355,265	13,875	3,201	14,931	24,958	54,193	64,033	118,133	61,941	794,807
1993.....	1,179,278	366,035	14,188	3,503	14,853	24,580	59,621	67,251	119,334	62,705	813,243
1994.....	1,183,141	373,261	14,655	3,868	14,632	24,553	65,268	69,768	117,505	63,012	809,880
1995.....	1,174,436	378,148	14,897	4,478	13,851	24,769	71,470	72,601	112,711	63,371	796,288
1996.....	1,179,815	384,674	15,396	4,457	13,076	24,545	78,469	73,828	111,789	63,114	795,141
1997.....	1,186,589	388,482	15,264	4,466	12,723	25,393	82,500	74,734	111,050	62,352	798,107
1998.....	1,199,579	390,618	15,273	4,321	12,094	27,674	85,079	74,457	110,806	60,914	808,961
Women											
1990.....	566,284	140,012	4,319	775	6,811	8,374	22,401	38,619	48,740	9,973	426,272
1991.....	599,045	148,347	4,425	782	6,980	7,514	23,776	42,738	52,467	9,665	450,698
1992.....	624,677	159,486	4,586	1,024	6,986	7,210	26,720	46,903	56,421	9,636	465,191
1993.....	641,742	165,720	4,764	1,050	6,999	6,951	29,182	49,222	57,571	9,981	476,022
1994.....	646,080	170,977	5,067	1,203	6,768	7,020	31,921	51,019	57,576	10,403	475,103
1995.....	643,290	175,931	5,292	1,524	6,491	7,063	35,555	52,963	56,093	10,950	467,359
1996.....	651,815	181,333	5,702	1,485	5,992	6,772	39,369	53,863	56,834	11,316	470,482
1997.....	661,307	187,011	5,882	1,542	5,889	6,903	42,533	55,243	57,549	11,470	474,296
1998.....	673,865	190,397	5,994	1,599	5,659	7,439	44,844	55,400	58,123	11,339	483,468
Percent of degrees awarded to women											
1990.....	53.3	42.5	32.2	27.9	46.4	30.2	48.2	71.5	46.3	15.4	58.1
1991.....	54.1	43.9	32.4	28.7	47.2	29.6	48.7	72.6	47.2	15.5	58.5
1992.....	54.3	44.9	33.1	32.0	46.8	28.9	49.3	73.2	47.8	15.6	58.5
1993.....	54.4	45.3	33.6	30.0	47.1	28.3	48.9	73.2	48.2	15.9	58.5
1994.....	54.6	45.8	34.6	31.1	46.3	28.6	48.9	73.1	49.0	16.5	58.7
1995.....	54.8	46.5	35.5	34.0	46.9	28.5	49.7	73.0	49.8	17.3	58.7
1996.....	55.2	47.1	37.0	33.3	45.8	27.6	50.2	73.0	50.8	17.9	59.2
1997.....	55.7	48.1	38.5	34.5	46.3	27.2	51.6	73.9	51.8	18.4	59.4
1998.....	56.2	48.7	39.2	37.0	46.8	26.9	52.7	74.4	52.5	18.6	59.8

SOURCE: Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

*Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002*

Appendix table 3-5

**Bachelor's degrees awarded to women by all institutions and women's colleges and universities: 1966 and 1990–98**

Field	1966	1990	1991	1992	1993	1994	1995	1996	1997	1998
Number of degrees awarded										
All institutions, all fields.....	222,971	566,284	599,045	624,677	641,742	646,080	643,290	651,815	661,307	673,865
Total science and engineering.....	45,634	140,012	148,347	159,486	165,720	170,977	175,931	181,333	187,011	190,397
Sciences.....	45,488	130,039	138,682	149,850	155,739	160,574	164,981	170,017	175,541	179,058
Physical sciences.....	2,172	4,319	4,425	4,586	4,764	5,067	5,292	5,702	5,882	5,994
Earth, atmospheric, and ocean sciences.....	161	775	782	1,024	1,050	1,203	1,524	1,485	1,542	1,599
Mathematics and statistics.....	6,689	6,811	6,980	6,986	6,999	6,768	6,491	5,992	5,889	5,659
Computer science.....	13	8,374	7,514	7,210	6,951	7,020	7,063	6,772	6,903	7,439
Agricultural sciences.....	131	2,992	3,140	3,949	4,338	4,941	5,637	6,504	7,267	7,743
Biological sciences.....	7,334	19,409	20,636	22,771	24,844	26,980	29,918	32,865	35,266	37,101
Psychology.....	6,928	38,619	42,738	46,903	49,222	51,019	52,963	53,863	55,243	55,400
Social sciences.....	22,060	48,740	52,467	56,421	57,571	57,576	56,093	56,834	57,549	58,123
Engineering.....	146	9,973	9,665	9,636	9,981	10,403	10,950	11,316	11,470	11,339
WCUs, all fields.....	10,127	13,866	14,480	15,194	15,076	15,015	14,787	15,592	15,736	15,978
Total science and engineering.....	3,217	4,170	4,348	4,736	4,638	4,697	4,567	4,916	4,892	5,026
Sciences.....	3,217	4,167	4,338	4,729	4,632	4,677	4,556	4,890	4,877	4,986
Physical sciences.....	265	199	194	205	181	217	222	256	256	215
Earth, atmospheric, and ocean sciences.....	9	17	19	23	25	29	48	24	26	29
Mathematics and statistics.....	439	217	250	250	276	273	221	232	245	236
Computer science.....	0	133	100	104	131	122	117	124	110	126
Agricultural sciences.....	0	9	20	19	32	36	54	58	50	46
Biological sciences.....	524	628	647	771	808	823	867	959	1,014	1,081
Psychology.....	490	1,036	1,099	1,252	1,221	1,263	1,256	1,407	1,351	1,410
Social sciences.....	1,490	1,928	2,009	2,105	1,958	1,914	1,771	1,830	1,825	1,843
Engineering.....	0	3	10	7	6	20	11	26	15	40
WCU institution share of total bachelor's degrees to women (percent)										
Total, all fields.....	4.5	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.4
Total science and engineering.....	7.0	3.0	2.9	3.0	2.8	2.7	2.6	2.7	2.6	2.6
Sciences.....	7.1	3.2	3.1	3.2	3.0	2.9	2.8	2.9	2.8	2.8
Physical sciences.....	12.2	4.6	4.4	4.5	3.8	4.3	4.2	4.5	4.4	3.6
Earth, atmospheric, and ocean sciences.....	5.6	2.2	2.4	2.2	2.4	2.4	3.1	1.6	1.7	1.8
Mathematics and statistics.....	6.6	3.2	3.6	3.6	3.9	4.0	3.4	3.9	4.2	4.2
Computer science.....	0.0	1.6	1.3	1.4	1.9	1.7	1.7	1.8	1.6	1.7
Agricultural sciences.....	0.0	0.3	0.6	0.5	0.7	0.7	1.0	0.9	0.7	0.6
Biological sciences.....	7.1	3.2	3.1	3.4	3.3	3.1	2.9	2.9	2.9	2.9
Psychology.....	7.1	2.7	2.6	2.7	2.5	2.5	2.4	2.6	2.4	2.5
Social sciences.....	6.8	4.0	3.8	3.7	3.4	3.3	3.2	3.2	3.2	3.2
Engineering.....	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.4

WCU = women's college or university

**NOTE:** Data are for those institutions identified by the Women's College Coalition as women's colleges. Excludes women's colleges whose data are reported together with a coed institution or coordinate men's college. The following institutions were excluded for this reason: The Women's College at the University of Denver; Hartford College for Women; Newcomb College; Douglass College; Hobart-William Smith College; Stern College for Women; Russell Sage College; Radcliffe College; and Westhampton College.

**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

**Appendix table 3-6**  
**Bachelor's degrees awarded in science and engineering, by sex and detailed field: 1998**

Field	Total	Males	Females	Percent awarded to females
Total science and engineering.....	390,618	200,221	190,397	48.7
Physical sciences.....	15,273	9,279	5,994	39.2
Astronomy.....	168	110	58	34.5
Chemistry.....	10,873	5,900	4,973	45.7
Physics.....	3,455	2,789	666	19.3
Other physical sciences.....	777	480	297	38.2
Earth, atmospheric, and ocean sciences.....	4,321	2,722	1,599	37.0
Atmospheric sciences.....	443	339	104	23.5
Earth sciences.....	3,665	2,262	1,403	38.3
Oceanography.....	213	121	92	43.2
Mathematics and statistics.....	12,094	6,435	5,659	46.8
Computer science.....	27,674	20,235	7,439	26.9
Agricultural sciences.....	17,967	10,224	7,743	43.1
Biological sciences.....	67,112	30,011	37,101	55.3
Psychology.....	74,457	19,057	55,400	74.4
Social sciences.....	110,806	52,683	58,123	52.5
Economics.....	18,244	12,453	5,791	31.7
Political science and public administration.....	36,654	19,334	17,320	47.3
Sociology.....	24,884	7,762	17,122	68.8
Anthropology.....	6,894	2,414	4,480	65.0
Linguistics.....	680	197	483	71.0
History of science.....	39	21	18	46.2
Area and ethnic studies.....	5,441	2,000	3,441	63.2
Other social sciences.....	17,970	8,502	9,468	52.7
Engineering.....	60,914	49,575	11,339	18.6
Aerospace engineering.....	1,247	1,050	197	15.8
Chemical engineering.....	6,721	4,525	2,196	32.7
Civil engineering.....	11,522	8,946	2,576	22.4
Electrical engineering.....	16,322	14,310	2,012	12.3
Industrial engineering.....	3,988	2,968	1,020	25.6
Materials engineering.....	1,007	772	235	23.3
Mechanical engineering.....	13,363	11,727	1,636	12.2
Other engineering.....	6,744	5,277	1,467	21.8

SOURCE: Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey.

*Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002*

Appendix table 3-7

## First university degrees awarded, by sex and selected field and country: 1998

Country	All fields	Social and behavioral sciences	Life sciences	Physical sciences	Mathematics, statistics, and computers	Engineering	Agriculture
Number							
Australia, total awards.....	124,762	5,316	7,958	1,210	5,454	5,375	1,354
Awards to women.....	72,777	3,248	4,290	417	1,530	788	557
Canada, total awards.....	124,034	27,107	7,608	2,807	4,905	6,559	1,305
Awards to women.....	72,985	17,631	4,386	782	1,461	1,250	439
France, total awards.....	293,984	NA	NA	NA	NA	NA	NA
Awards to women.....	168,821	NA	NA	NA	NA	NA	NA
Germany, total awards.....	188,820	7,870	4,178	9,764	10,189	25,383	3,793
Awards to women.....	81,886	4,121	2,398	2,723	2,483	1,606	1,516
Italy, total awards.....	132,968	12,703	7,961	3,114	4,748	15,243	1,218
Awards to women.....	73,037	7,820	5,050	1,364	2,474	2,157	332
Japan, total awards.....	531,866	NA	NA	NA	NA	NA	NA
Awards to women.....	185,912	NA	NA	NA	NA	NA	NA
Mexico, total awards.....	214,794	NA	NA	NA	NA	NA	NA
Awards to women.....	94,724	NA	NA	NA	NA	NA	NA
South Korea, total awards.....	196,566	9,848	3,504	9,077	8,447	42,547	7,041
Awards to women.....	80,932	3,411	2,028	3,143	3,996	4,890	2,682
Spain, total awards.....	207,898	13,142	3,808	6,030	8,531	15,156	4,371
Awards to women.....	121,828	7,925	2,412	2,959	2,880	3,170	1,779
Turkey, total awards.....	115,106	18,222	1,985	6,301	3,565	6,727	4,516
Awards to women.....	46,040	7,090	1,265	2,809	1,451	1,074	1,787
United Kingdom, total awards.....	258,877 *	69,045 *	13,211	12,519	16,088	34,350 *	3,214 *
Awards to women.....	136,734 *	38,256 *	8,369	4,951	4,451	5,740 *	1,748 *
United States, total awards.....	1,172,879 *	199,082	63,975	19,531	37,588	75,157	28,304 *
Awards to women.....	652,364 *	115,588	34,505	7,303	12,643	12,509	12,558 *
Percent awarded to women							
Australia.....	58.3	61.1	53.9	34.5	28.1	14.7	41.1
Canada.....	58.8	65.0	57.6	27.9	29.8	19.1	33.6
France.....	57.4	NA	NA	NA	NA	NA	NA
Germany.....	43.4	52.4	57.4	27.9	24.4	6.3	40.0
Italy.....	54.9	61.6	63.4	43.8	52.1	14.2	27.3
Japan.....	35.0	NA	NA	NA	NA	NA	NA
Mexico.....	44.1	NA	NA	NA	NA	NA	NA
South Korea.....	41.2	34.6	57.9	34.6	47.3	11.5	38.1
Spain.....	58.6	60.3	63.3	49.1	33.8	20.9	40.7
Turkey.....	40.0	38.9	63.7	44.6	40.7	16.0	39.6
United Kingdom.....	52.8 *	55.4 *	63.3	39.5	27.7	16.7 *	54.4 *
United States.....	55.6 *	58.1	53.9	37.4	33.6	16.6	44.4 *

\* totals shown include more subfields than do other countries

NA not available

SOURCE: Organisation for Economic Co-operation and Development, *Education at a Glance* (Paris, 2000).

Appendix table 3-8

**Bachelor's degrees awarded in science and engineering, by citizenship, race/ethnicity, and field: 1990-98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
All recipients, all fields.....	1,062,151	1,107,997	1,150,072	1,179,278	1,183,141	1,174,436	1,179,815	1,186,589	1,199,579
Total science and engineering.....	345,793	356,785	376,933	388,435	395,380	399,809	405,921	408,749	411,286
Physical sciences <sup>a</sup> .....	16,203	16,407	17,076	17,691	18,525	19,375	19,853	19,730	19,594
Mathematics.....	14,674	14,784	14,851	14,870	14,431	13,759	13,201	12,869	12,363
Computer science.....	27,695	25,410	24,854	24,477	24,458	24,662	24,405	24,975	27,041
Agricultural sciences.....	8,622	8,643	10,492	11,827	13,165	14,847	16,669	17,666	18,211
Biological sciences.....	38,040	40,351	43,835	47,877	52,213	56,804	61,998	65,061	67,047
Psychology.....	54,018	58,893	64,043	67,251	69,768	72,601	73,828	74,734	74,457
Social sciences.....	121,838	130,111	139,884	141,772	139,858	134,431	132,901	131,408	131,703
Engineering.....	64,703	62,186	61,898	62,670	62,962	63,330	63,066	62,306	60,870
Non-S&E.....	716,358	751,212	773,139	790,843	787,761	774,627	773,894	777,840	788,293
U.S. citizens and permanent residents, all fields.....	1,035,598	1,078,340	1,121,525	1,146,907	1,148,914	1,137,424	1,142,028	1,147,815	1,160,692
Total science and engineering.....	333,475	344,061	364,695	374,633	381,451	385,055	391,074	393,952	396,558
Physical sciences <sup>a</sup> .....	15,608	15,799	16,469	16,927	17,812	18,652	19,167	19,059	18,919
Mathematics.....	14,150	14,206	14,259	14,318	13,869	13,166	12,643	12,343	11,907
Computer science.....	25,629	23,373	22,880	22,273	22,185	22,367	22,225	22,976	24,912
Agricultural sciences.....	8,348	8,373	10,289	11,478	12,919	14,589	16,397	17,411	17,917
Biological sciences.....	37,173	39,288	42,842	46,660	51,058	55,523	60,633	63,601	65,625
Psychology.....	53,493	58,202	63,379	66,421	68,913	71,659	72,812	73,685	73,287
Social sciences.....	119,288	127,216	136,902	138,391	136,273	130,579	128,893	127,368	127,764
Engineering.....	59,786	57,604	57,675	58,165	58,422	58,520	58,304	57,509	56,227
Non-S&E.....	702,123	734,279	756,830	772,274	767,463	752,369	750,954	753,863	764,134
Whites, non-Hispanic, all fields.....	856,686	892,363	921,453	931,603	918,124	892,785	884,128	877,759	878,018
Total science and engineering.....	270,225	278,190	292,614	297,171	297,616	294,773	295,082	292,252	290,207
Physical sciences <sup>a</sup> .....	13,055	13,145	13,678	13,941	14,616	14,952	15,088	14,920	14,566
Mathematics.....	11,765	11,649	11,723	11,669	11,089	10,343	9,823	9,484	9,045
Computer science.....	18,918	17,349	16,844	16,155	15,816	15,532	15,470	15,626	16,670
Agricultural sciences.....	7,658	7,704	9,382	10,556	11,733	13,120	14,646	15,516	15,832
Biological sciences.....	28,814	30,264	32,506	35,080	37,942	40,628	43,680	45,325	45,854
Psychology.....	44,136	48,134	52,066	53,763	54,870	55,914	55,905	55,346	54,225
Social sciences.....	98,385	104,783	111,389	111,154	106,863	100,558	97,372	94,411	93,482
Engineering.....	47,494	45,162	45,026	44,853	44,687	43,726	43,098	41,624	40,533
Non-S&E.....	586,461	614,173	628,839	634,432	620,508	598,012	589,046	585,507	587,811
Asians/Pacific Islanders, all fields.....	38,027	41,725	46,616	50,587	54,675	59,295	63,117	67,358	69,988
Total science and engineering.....	19,437	20,552	22,635	24,504	26,420	29,128	31,031	33,139	34,568
Physical sciences <sup>a</sup> .....	937	983	1,001	1,098	1,096	1,347	1,559	1,620	1,676
Mathematics.....	874	915	857	915	926	965	935	877	856
Computer science.....	2,144	2,010	2,082	2,245	2,247	2,365	2,448	2,767	3,158
Agricultural sciences.....	126	128	154	163	173	287	312	401	444
Biological sciences.....	3,245	3,559	4,402	5,103	5,959	7,043	7,958	8,535	8,867
Psychology.....	1,630	1,885	2,150	2,538	2,777	3,331	3,666	4,067	4,267
Social sciences.....	4,469	4,852	5,724	6,035	6,726	7,005	7,354	7,787	8,298
Engineering.....	6,012	6,220	6,265	6,407	6,516	6,785	6,799	7,085	7,002
Non-S&E.....	18,590	21,173	23,981	26,083	28,255	30,167	32,086	34,219	35,420

See explanatory information and SOURCE at end of table.

Appendix table 3-8

**Bachelor's degrees awarded in science and engineering, by citizenship, race/ethnicity, and field: 1990–98**

Page 2 of 3

Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Blacks, non-Hispanic, all fields.....	59,301	65,009	71,311	76,667	82,316	85,287	89,554	92,067	95,878
Total science and engineering.....	18,230	19,987	22,431	24,421	26,289	27,528	29,055	30,444	31,398
Physical sciences <sup>a</sup> .....	650	753	816	836	921	1,034	1,100	1,110	1,127
Mathematics.....	720	811	904	965	992	995	981	1,071	1,030
Computer science.....	2,247	1,997	2,090	2,213	2,398	2,498	2,415	2,370	2,580
Agricultural sciences.....	171	162	206	219	268	263	363	387	426
Biological sciences.....	1,994	2,111	2,385	2,739	2,980	3,231	3,811	4,123	4,550
Psychology.....	3,150	3,688	4,179	4,618	5,236	5,741	6,028	6,647	6,852
Social sciences.....	7,226	8,236	9,489	10,254	10,835	10,921	11,357	11,660	11,815
Engineering.....	2,072	2,229	2,362	2,577	2,659	2,845	3,000	3,076	3,018
Non-S&E.....	41,071	45,022	48,880	52,246	56,027	57,759	60,499	61,623	64,480
Hispanics, all fields.....	43,864	49,027	53,007	57,845	62,683	66,691	71,015	74,938	78,125
Total science and engineering.....	13,918	15,351	17,391	18,442	20,529	22,190	23,791	25,266	26,725
Physical sciences <sup>a</sup> .....	522	533	546	599	733	800	872	853	914
Mathematics.....	413	480	482	470	543	536	585	581	642
Computer science.....	1,085	1,215	1,173	1,096	1,135	1,307	1,280	1,267	1,410
Agricultural sciences.....	218	213	214	217	336	386	506	561	632
Biological sciences.....	2,119	2,264	2,477	2,652	2,901	3,090	3,521	3,793	4,283
Psychology.....	2,405	2,746	3,247	3,587	3,990	4,543	5,036	5,282	5,509
Social sciences.....	4,645	5,334	6,519	6,860	7,748	7,877	8,260	8,804	9,210
Engineering.....	2,511	2,566	2,733	2,961	3,143	3,651	3,731	4,125	4,125
Non-S&E.....	29,946	33,676	35,616	39,403	42,154	44,501	47,224	49,672	51,400
American Indians/Alaskan									
Natives, all fields.....	4,212	4,486	5,130	5,574	6,064	6,454	6,813	7,238	7,706
Total science and engineering.....	1,271	1,344	1,561	1,819	2,004	2,126	2,268	2,419	2,533
Physical sciences <sup>a</sup> .....	73	69	63	93	83	98	104	100	106
Mathematics.....	45	43	46	55	59	58	53	56	66
Computer science.....	84	80	79	81	78	110	89	97	106
Agricultural sciences.....	59	53	60	64	109	124	139	148	153
Biological sciences.....	130	176	181	211	246	285	316	339	399
Psychology.....	211	235	311	335	394	407	470	496	515
Social sciences.....	523	530	639	804	817	823	854	921	935
Engineering.....	146	158	182	176	218	221	243	262	253
Non-S&E.....	2,941	3,142	3,569	3,755	4,060	4,328	4,545	4,819	5,173
Unknown race/ethnicity, all fields.....	33,508	25,730	24,008	24,631	25,052	26,912	27,401	28,455	30,977
Total science and engineering.....	10,394	8,637	8,063	8,276	8,593	9,310	9,847	10,432	11,127
Physical sciences <sup>a</sup> .....	371	316	365	360	363	421	444	456	530
Mathematics.....	333	308	247	244	260	269	266	274	268
Computer science.....	1,151	722	612	483	511	555	523	849	988
Agricultural sciences.....	116	113	273	259	300	409	431	398	430
Biological sciences.....	871	914	891	875	1,030	1,246	1,347	1,486	1,672
Psychology.....	1,961	1,514	1,426	1,580	1,646	1,723	1,707	1,847	1,919
Social sciences.....	4,040	3,481	3,142	3,284	3,284	3,395	3,696	3,785	4,024
Engineering.....	1,551	1,269	1,107	1,191	1,199	1,292	1,433	1,337	1,296
Non-S&E.....	23,114	17,093	15,945	16,355	16,459	17,602	17,554	18,023	19,850

See explanatory information and SOURCE at end of table.

Appendix table 3-8

**Bachelor's degrees awarded in science and engineering, by citizenship, race/ethnicity, and field: 1990–98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Temporary residents, all fields.....	26,553	29,657	28,547	32,371	34,227	37,012	37,787	38,774	38,887
Total science and engineering.....	12,318	12,724	12,238	13,802	13,929	14,754	14,847	14,797	14,728
Physical sciences <sup>a</sup> .....	595	608	607	764	713	723	686	671	675
Mathematics.....	524	578	592	552	562	593	558	526	456
Computer science.....	2,066	2,037	1,974	2,204	2,273	2,295	2,180	1,999	2,129
Agricultural sciences.....	867	1,063	993	1,217	1,155	1,281	1,365	1,460	1,422
Biological sciences.....	274	270	203	349	246	258	272	255	294
Psychology.....	2,550	2,895	2,982	3,381	3,585	3,852	4,008	4,040	3,939
Social sciences.....	525	691	664	830	855	942	1,016	1,049	1,170
Engineering.....	4,917	4,582	4,223	4,505	4,540	4,810	4,762	4,797	4,643
Non-S&E.....	14,235	16,933	16,309	18,569	20,298	22,258	22,940	23,977	24,159

<sup>a</sup>In this table, the physical sciences include the earth, atmospheric, and ocean sciences as well as physics, astronomy, and chemistry. See notes for more information.

**NOTES:** Data on race/ethnicity are for U.S. citizens and permanent residents only and do not include students on temporary visas. Because these data were collected on broad fields of study only until 1994, the trend data could not be adjusted to the exact field taxonomies used by the National Science Foundation.

**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

*Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002*

Appendix table 3-9

**Bachelor's degrees awarded to U.S. citizens and permanent residents, by S&E field and race/ethnicity: 1990–98**

(Percent)

Page 1 of 2

Race/ethnicity and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
U.S. citizens and permanent residents, all fields.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total science and engineering.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Physical sciences <sup>a</sup> .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Mathematics.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Computer science.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Agricultural sciences.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Biological sciences.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Psychology.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Social sciences.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Whites, non-Hispanic, all fields.....	82.7	82.8	82.2	81.2	79.9	78.5	77.4	76.5	75.6
Total science and engineering.....	81.0	80.9	80.2	79.3	78.0	76.6	75.5	74.2	73.2
Physical sciences <sup>a</sup> .....	83.6	83.2	83.1	82.4	82.1	80.2	78.7	78.3	77.0
Mathematics.....	83.1	82.0	82.2	81.5	80.0	78.6	77.7	76.8	76.0
Computer science.....	73.8	74.2	73.6	72.5	71.3	69.4	69.6	68.0	66.9
Agricultural sciences.....	91.7	92.0	91.2	92.0	90.8	89.9	89.3	89.1	88.4
Biological sciences.....	77.5	77.0	75.9	75.2	74.3	73.2	72.0	71.3	69.9
Psychology.....	82.5	82.7	82.2	80.9	79.6	78.0	76.8	75.1	74.0
Social sciences.....	82.5	82.4	81.4	80.3	78.4	77.0	75.5	74.1	73.2
Engineering.....	79.4	78.4	78.1	77.1	76.5	74.7	73.9	72.4	72.1
Asians/Pacific Islanders, all fields.....	3.7	3.9	4.2	4.4	4.8	5.2	5.5	5.9	6.0
Total science and engineering.....	5.8	6.0	6.2	6.5	6.9	7.6	7.9	8.4	8.7
Physical sciences <sup>a</sup> .....	6.0	6.2	6.1	6.5	6.2	7.2	8.1	8.5	8.9
Mathematics.....	6.2	6.4	6.0	6.4	6.7	7.3	7.4	7.1	7.2
Computer science.....	8.4	8.6	9.1	10.1	10.1	10.6	11.0	12.0	12.7
Agricultural sciences.....	1.5	1.5	1.5	1.4	1.3	2.0	1.9	2.3	2.5
Biological sciences.....	8.7	9.1	10.3	10.9	11.7	12.7	13.1	13.4	13.5
Psychology.....	3.0	3.2	3.4	3.8	4.0	4.6	5.0	5.5	5.8
Social sciences.....	3.7	3.8	4.2	4.4	4.9	5.4	5.7	6.1	6.5
Engineering.....	10.1	10.8	10.9	11.0	11.2	11.6	11.7	12.3	12.5
Blacks, non-Hispanic, all fields.....	5.7	6.0	6.4	6.7	7.2	7.5	7.8	8.0	8.3
Total science and engineering.....	5.5	5.8	6.2	6.5	6.9	7.1	7.4	7.7	7.9
Physical sciences <sup>a</sup> .....	4.2	4.8	5.0	4.9	5.2	5.5	5.7	5.8	6.0
Mathematics.....	5.1	5.7	6.3	6.7	7.2	7.6	7.8	8.7	8.7
Computer science.....	8.8	8.5	9.1	9.9	10.8	11.2	10.9	10.3	10.4
Agricultural sciences.....	2.0	1.9	2.0	1.9	2.1	1.8	2.2	2.2	2.4
Biological sciences.....	5.4	5.4	5.6	5.9	5.8	5.8	6.3	6.5	6.9
Psychology.....	5.9	6.3	6.6	7.0	7.6	8.0	8.3	9.0	9.3
Social sciences.....	6.1	6.5	6.9	7.4	8.0	8.4	8.8	9.2	9.2
Engineering.....	3.5	3.9	4.1	4.4	4.6	4.9	5.1	5.3	5.4

See explanatory information and SOURCE at end of table.

Appendix table 3-9

**Bachelor's degrees awarded to U.S. citizens and permanent residents, by S&E field and race/ethnicity: 1990–98**

(Percent)

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Race/ethnicity and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Hispanics, all fields.....	4.2	4.5	4.7	5.0	5.5	5.9	6.2	6.5	6.7
Total science and engineering.....	4.2	4.5	4.8	4.9	5.4	5.8	6.1	6.4	6.7
Physical sciences <sup>a</sup> .....	3.3	3.4	3.3	3.5	4.1	4.3	4.5	4.5	4.8
Mathematics.....	2.9	3.4	3.4	3.3	3.9	4.1	4.6	4.7	5.4
Computer science.....	4.2	5.2	5.1	4.9	5.1	5.8	5.8	5.5	5.7
Agricultural sciences.....	2.6	2.5	2.1	1.9	2.6	2.6	3.1	3.2	3.5
Biological sciences.....	5.7	5.8	5.8	5.7	5.7	5.6	5.8	6.0	6.5
Psychology.....	4.5	4.7	5.1	5.4	5.8	6.3	6.9	7.2	7.5
Social sciences.....	3.9	4.2	4.8	5.0	5.7	6.0	6.4	6.9	7.2
Engineering.....	4.2	4.5	4.7	5.1	5.4	6.2	6.4	7.2	7.3
American Indians/Alaskan Natives, all fields.....	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7
Total science and engineering.....	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6
Physical sciences <sup>a</sup> .....	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6
Mathematics.....	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.6
Computer science.....	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.4
Agricultural sciences.....	0.7	0.6	0.6	0.6	0.8	0.8	0.8	0.9	0.9
Biological sciences.....	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6
Psychology.....	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7
Social sciences.....	0.4	0.4	0.5	0.6	0.6	0.6	0.7	0.7	0.7
Engineering.....	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4
Unknown race/ethnicity, all fields.....	3.2	2.4	2.1	2.1	2.2	2.4	2.4	2.5	2.7
Total science and engineering.....	3.1	2.5	2.2	2.2	2.3	2.4	2.5	2.6	2.8
Physical sciences <sup>a</sup> .....	2.4	2.0	2.2	2.1	2.0	2.3	2.3	2.4	2.8
Mathematics.....	2.4	2.2	1.7	1.7	1.9	2.0	2.1	2.2	2.3
Computer science.....	4.5	3.1	2.7	2.2	2.3	2.5	2.4	3.7	4.0
Agricultural sciences.....	1.4	1.3	2.7	2.3	2.3	2.8	2.6	2.3	2.4
Biological sciences.....	2.3	2.3	2.1	1.9	2.0	2.2	2.2	2.3	2.5
Psychology.....	3.7	2.6	2.2	2.4	2.4	2.4	2.3	2.5	2.6
Social sciences.....	3.4	2.7	2.3	2.4	2.4	2.6	2.9	3.0	3.1
Engineering.....	2.6	2.2	1.9	2.0	2.1	2.2	2.5	2.3	2.3

<sup>a</sup>In this table, the physical sciences include the earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry. See notes for more information.

**NOTES:** Racial/ethnic data for degree recipients were collected on broad fields of study only until 1994; thus, the trend data could not be adjusted to the exact field taxonomies used by the National Science Foundation.

**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

Appendix table 3-10

**Bachelor's degrees awarded in engineering, by citizenship, race/ethnicity, and sex: 1990–2000**

Year	Total	U.S. citizens and permanent residents							Temporary residents
		Men	Women	Whites, non-Hispanic	Asians/ Pacific Islanders	Blacks, non-Hispanic	Hispanics	American Indians/ Alaskan Natives	
1990.....	65,967	55,837	10,130	50,099	5,989	2,173	2,473	112	5,121
1991.....	63,986	53,970	10,016	48,028	6,305	2,304	2,663	146	4,540
1992.....	63,653	53,681	9,972	47,540	6,479	2,374	2,708	163	4,389
1993.....	65,001	54,548	10,453	47,976	6,764	2,637	2,845	175	4,604
1994.....	64,946	54,146	10,800	47,136	6,881	2,769	3,045	207	4,908
1995.....	64,749	53,446	11,303	46,264	7,056	2,897	3,409	230	4,893
1996.....	65,267	53,530	11,737	45,952	7,333	3,120	3,557	263	5,042
1997.....	65,091	52,931	12,160	44,976	7,625	3,203	4,005	265	5,017
1998.....	63,271	51,474	11,797	43,623	7,131	3,144	3,939	351	5,083
1999.....	62,500	50,140	12,360	42,650	7,226	3,171	4,073	328	5,052
2000.....	63,635	50,495	13,140	43,437	7,529	3,150	4,124	347	5,048

SOURCE: American Association of Engineering Societies, Engineering Workforce Commission, Engineering and Technology Degrees, 1990–2000.

**Appendix table 3-11**  
**Bachelor's degrees awarded, by detailed field, citizenship, and race/ethnicity: 1998**

Field	Total, all recipients	U.S. citizens and permanent residents							Temporary residents
		Total	Whites, non-Hispanic	Asians/ Pacific Islanders	Blacks, non-Hispanic	Hispanics	American Indians/ Alaskan Natives	Unknown race/ ethnicity	
Total, all fields.....	1,199,579	1,160,692	878,018	69,988	95,878	78,125	7,706	30,977	38,887
Total science and engineering.....	390,618	375,909	272,561	34,004	30,751	25,712	2,392	10,489	14,709
Sciences.....	329,704	319,638	231,987	27,002	27,732	21,587	2,138	9,192	10,066
Physical sciences.....	15,273	14,680	10,763	1,584	1,057	796	81	399	593
Astronomy.....	168	157	127	12	2	11	0	5	11
Chemistry.....	10,873	10,488	7,370	1,337	824	640	64	253	385
Physics.....	3,455	3,277	2,652	208	179	117	14	107	178
Other physical sciences.....	777	758	614	27	52	28	3	34	19
Earth, atmospheric, and ocean sciences.....	4,321	4,239	3,803	92	70	118	25	131	82
Atmospheric sciences.....	443	439	416	5	7	8	0	3	4
Geosciences.....	3,665	3,590	3,207	76	60	98	25	124	75
Oceanography.....	213	210	180	11	3	12	0	4	3
Mathematics.....	12,094	11,641	8,903	834	966	604	65	269	453
Computer sciences.....	27,674	25,537	17,069	3,220	2,666	1,473	112	997	2,137
Agricultural sciences.....	17,967	17,674	15,616	439	409	631	151	428	293
Biological sciences.....	67,112	65,689	45,912	8,869	4,553	4,283	399	1,673	1,423
Psychology.....	74,457	73,287	54,225	4,267	6,852	5,509	515	1,919	1,170
Social sciences.....	110,806	106,891	75,696	7,697	11,159	8,173	790	3,376	3,915
Economics.....	18,244	16,461	11,599	2,430	979	851	69	533	1,783
Political science.....	36,654	35,475	25,624	2,141	3,638	2,828	215	1,029	1,179
Sociology.....	24,884	24,575	16,450	1,212	3,944	2,081	197	691	309
Other social sciences.....	31,024	30,380	22,023	1,914	2,598	2,413	309	1,123	644
Engineering.....	60,914	56,271	40,574	7,002	3,019	4,125	254	1,297	4,643
Aerospace engineering.....	1,247	1,110	877	96	35	78	10	14	137
Chemical engineering.....	6,721	6,214	4,405	897	385	393	31	103	507
Civil engineering.....	11,522	11,012	8,481	909	401	920	62	239	510
Electrical engineering.....	16,322	14,485	9,174	2,757	1,047	1,070	53	384	1,837
Industrial engineering.....	3,988	3,502	2,333	369	262	450	15	73	486
Materials engineering.....	1,007	974	760	119	32	42	3	18	33
Mechanical engineering.....	13,363	12,566	9,656	1,128	548	866	47	321	797
Other engineering.....	6,744	6,408	4,888	727	309	306	33	145	336
Non-S&E .....	808,961	784,783	605,457	35,984	65,127	52,413	5,314	20,488	24,178

**NOTES:** Data on race/ethnicity are for U.S. citizens and permanent residents only and do not include students on temporary visas. Because these data were collected by detailed field beginning in 1995, the data in this table do correspond to National Science Foundation (NSF) field taxonomies. They therefore match other tables in this report showing bachelor's degrees by sex, but do not match data in tables showing bachelor's degrees by race/ethnicity over time. The largest effect is in the social sciences: NSF excludes history and includes public administration and public policy, linguistics, gerontology, and agricultural economics in this category.

**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey.

Appendix table 3-12

**Bachelor's degrees awarded to blacks by all institutions and historically black colleges and universities: 1990–98**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Number of degrees awarded									
All institutions, total science and engineering.....	18,230	19,987	22,431	24,421	26,289	27,528	29,055	30,444	31,398
Sciences.....	16,158	17,758	20,069	21,844	23,630	24,683	26,055	27,368	28,380
Physical sciences <sup>a</sup> .....	650	753	816	836	921	1,034	1,100	1,110	1,127
Mathematics and statistics.....	720	811	904	965	992	995	981	1,071	1,030
Computer science.....	2,247	1,997	2,090	2,213	2,398	2,498	2,415	2,370	2,580
Agricultural sciences.....	171	162	206	219	268	263	363	387	426
Biological sciences.....	1,994	2,111	2,385	2,739	2,980	3,231	3,811	4,123	4,550
Psychology.....	3,150	3,688	4,179	4,618	5,236	5,741	6,028	6,647	6,852
Social sciences.....	7,226	8,236	9,489	10,254	10,835	10,921	11,357	11,660	11,815
Engineering.....	2,072	2,229	2,362	2,577	2,659	2,845	3,000	3,076	3,018
HBCUs, total science and engineering.....	5,190	5,679	6,363	7,368	7,804	8,361	8,980	9,071	9,151
Sciences.....	4,666	5,090	5,769	6,668	7,114	7,563	8,086	8,166	8,308
Physical sciences <sup>a</sup> .....	296	358	376	390	421	471	547	503	485
Mathematics and statistics.....	307	369	420	463	449	466	443	478	442
Computer science.....	899	748	780	904	904	967	979	834	904
Agricultural sciences.....	87	96	117	109	134	123	197	216	220
Biological sciences.....	764	792	906	1,155	1,197	1,357	1,628	1,841	1,920
Psychology.....	662	841	969	1,140	1,308	1,432	1,512	1,653	1,636
Social sciences.....	1,651	1,886	2,201	2,507	2,701	2,747	2,780	2,641	2,701
Engineering.....	524	589	594	700	690	798	894	905	843
HBCU share of total bachelor's degrees to blacks (percent)									
Total science and engineering.....	28.5	28.4	28.4	30.2	29.7	30.4	30.9	29.8	29.1
Sciences.....	28.9	28.7	28.7	30.5	30.1	30.6	31.0	29.8	29.3
Physical sciences <sup>a</sup> .....	45.5	47.5	46.1	46.7	45.7	45.6	49.7	45.3	43.0
Mathematics and statistics.....	42.6	45.5	46.5	48.0	45.3	46.8	45.2	44.6	42.9
Computer science.....	40.0	37.5	37.3	40.8	37.7	38.7	40.5	35.2	35.0
Agricultural sciences.....	50.9	59.3	56.8	49.8	50.0	46.8	54.3	55.8	51.6
Biological sciences.....	38.3	37.5	38.0	42.2	40.2	42.0	42.7	44.7	42.2
Psychology.....	21.0	22.8	23.2	24.7	25.0	24.9	25.1	24.9	23.9
Social sciences.....	22.8	22.9	23.2	24.4	24.9	25.2	24.5	22.7	22.9
Engineering.....	25.3	26.4	25.1	27.2	25.9	28.0	29.8	29.4	27.9

HBCU = historically black college or university

<sup>a</sup>In this table, the physical sciences include the earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry. See notes for more information.**NOTES:** Data on race/ethnicity are for U.S. citizens and permanent residents only and do not include students on temporary visas. Racial/ethnic data for degree recipients were collected on broad fields of study only until 1994; thus, the trend data could not be adjusted to the exact field taxonomies used by the National Science Foundation.**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

Appendix table 3-13

**Bachelor's degrees awarded to Hispanics by all institutions and Hispanic-serving institutions: 1990–98**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Number of degrees awarded									
All institutions, total science and engineering.....	13,918	15,351	17,391	18,442	20,529	22,190	23,791	25,266	26,725
Sciences.....	11,407	12,785	14,658	15,481	17,386	18,539	20,060	21,141	22,600
Physical sciences <sup>a</sup> .....	522	533	546	599	733	800	872	853	914
Mathematics and statistics.....	413	480	482	470	543	536	585	581	642
Computer science.....	1,085	1,215	1,173	1,096	1,135	1,307	1,280	1,267	1,410
Agricultural sciences.....	218	213	214	217	336	386	506	561	632
Biological sciences.....	2,119	2,264	2,477	2,652	2,901	3,090	3,521	3,793	4,283
Psychology.....	2,405	2,746	3,247	3,587	3,990	4,543	5,036	5,282	5,509
Social sciences.....	4,645	5,334	6,519	6,860	7,748	7,877	8,260	8,804	9,210
Engineering.....	2,511	2,566	2,733	2,961	3,143	3,651	3,731	4,125	4,125
HSIs, total science and engineering.....	4,966	5,507	5,678	6,139	6,742	7,382	7,855	8,437	8,696
Sciences.....	3,969	4,517	4,551	4,956	5,569	5,817	6,353	6,733	7,107
Physical sciences <sup>a</sup> .....	245	233	239	259	321	398	422	400	427
Mathematics and statistics.....	152	201	118	145	168	178	193	209	200
Computer science.....	483	587	515	478	470	510	512	482	539
Agricultural sciences.....	94	89	43	30	98	125	158	188	190
Biological sciences.....	1,104	1,147	1,184	1,255	1,294	1,285	1,496	1,602	1,816
Psychology.....	848	974	1,078	1,214	1,367	1,479	1,626	1,695	1,769
Social sciences.....	1,043	1,286	1,374	1,575	1,851	1,842	1,946	2,157	2,166
Engineering.....	997	990	1,127	1,183	1,173	1,565	1,502	1,704	1,589
HSI share of total bachelor's degrees to Hispanics (percent)									
Total science and engineering.....	35.7	35.9	32.6	33.3	32.8	33.3	33.0	33.4	32.5
Sciences.....	34.8	35.3	31.0	32.0	32.0	31.4	31.7	31.8	31.4
Physical sciences <sup>a</sup> .....	46.9	43.7	43.8	43.2	43.8	49.8	48.4	46.9	46.7
Mathematics and statistics.....	36.8	41.9	24.5	30.9	30.9	33.2	33.0	36.0	31.2
Computer science.....	44.5	48.3	43.9	43.6	41.4	39.0	40.0	38.0	38.2
Agricultural sciences.....	43.1	41.8	20.1	13.8	29.2	32.4	31.2	33.5	30.1
Biological sciences.....	52.1	50.7	47.8	47.3	44.6	41.6	42.5	42.2	42.4
Psychology.....	35.3	35.5	33.2	33.8	34.3	32.6	32.3	32.1	32.1
Social sciences.....	22.5	24.1	21.1	23.0	23.9	23.4	23.6	24.5	23.5
Engineering.....	39.7	38.6	41.2	40.0	37.3	42.9	40.3	41.3	38.5

HSI Hispanic-serving institution

<sup>a</sup>In this table, the physical sciences include the earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry. See notes for more information.

**NOTES:** Data on race/ethnicity are for U.S. citizens and permanent residents only and do not include students on temporary visas. Racial/ethnic data for degree recipients were collected on broad fields of study only until 1994; thus, the trend data could not be adjusted to the exact field taxonomies used by the National Science Foundation.

**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

Appendix table 3-14

**Bachelor's degrees awarded to American Indians/Alaskan Natives by all institutions and tribal institutions: 1990–98**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Number of degrees awarded									
All institutions, total science and engineering.....	1,271	1,344	1,561	1,819	2,004	2,126	2,268	2,419	2,533
Sciences.....	1,125	1,186	1,379	1,643	1,786	1,905	2,025	2,157	2,280
Physical sciences <sup>a</sup> .....	73	69	63	93	83	98	104	100	106
Mathematics and statistics.....	45	43	46	55	59	58	53	56	66
Computer science.....	84	80	79	81	78	110	89	97	106
Agricultural sciences.....	59	53	60	64	109	124	139	148	153
Biological sciences.....	130	176	181	211	246	285	316	339	399
Psychology.....	211	235	311	335	394	407	470	496	515
Social sciences.....	523	530	639	804	817	823	854	921	935
Engineering.....	146	158	182	176	218	221	243	262	253
Tribal institutions, total science and engineering.....	5	5	0	0	7	7	14	24	16
Sciences.....	5	5	0	0	7	7	14	24	16
Physical sciences <sup>a</sup> .....	0	0	0	0	0	0	0	0	0
Mathematics and statistics.....	0	0	0	0	0	0	0	0	0
Computer science.....	0	0	0	0	0	0	0	0	0
Agricultural sciences.....	0	0	0	0	0	0	2	7	3
Biological sciences.....	0	0	0	0	0	0	0	0	0
Psychology.....	0	0	0	0	0	0	0	0	0
Social sciences.....	5	5	0	0	7	7	12	17	13
Engineering.....	0	0	0	0	0	0	0	0	0
Tribal institution share of total bachelor's degrees to American Indians/Alaskan Natives (percent)									
Total science and engineering.....	0.4	0.4	0.0	0.0	0.3	0.3	0.6	1.0	0.6
Sciences.....	0.4	0.4	0.0	0.0	0.4	0.4	0.7	1.1	0.7
Physical sciences <sup>a</sup> .....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mathematics and statistics.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Computer science.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural sciences.....	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.7	2.0
Biological sciences.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Psychology.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social sciences.....	1.0	0.9	0.0	0.0	0.9	0.9	1.4	1.8	1.4
Engineering.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

<sup>a</sup>In this table, the physical sciences include the earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry. See notes for more information.

**NOTES:** Racial/ethnic data for degree recipients were collected on broad fields of study only until 1994; thus, the trend data could not be adjusted to the exact field taxonomies used by the National Science Foundation.

**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

Appendix table 3-15

**Bachelor's degrees awarded to women, by citizenship, race/ethnicity, and field: 1990–98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all fields.....	566,284	599,045	624,677	641,742	646,080	643,290	651,815	661,307	673,865
Science and engineering.....	145,877	155,286	167,663	174,047	178,888	183,731	189,307	194,420	198,115
Sciences.....	135,904	145,622	158,035	164,073	168,495	172,790	178,006	182,960	186,786
Physical sciences <sup>a</sup> .....	5,094	5,208	5,610	5,814	6,272	6,816	7,187	7,424	7,593
Mathematics.....	6,811	6,980	6,928	7,011	6,677	6,441	6,025	5,931	5,745
Computer science.....	8,374	7,514	7,184	6,912	6,992	7,034	6,739	6,809	7,245
Agricultural sciences.....	3,028	3,166	3,980	4,384	4,996	5,715	6,591	7,330	7,816
Biological sciences.....	19,409	20,636	22,728	24,766	26,899	29,848	32,809	35,222	37,065
Psychology.....	38,619	42,738	46,906	49,222	51,019	52,963	53,863	55,243	55,400
Social sciences.....	54,569	59,380	64,699	65,964	65,640	63,973	64,792	65,001	65,922
Engineering.....	9,973	9,664	9,628	9,974	10,393	10,941	11,301	11,460	11,329
Non-S&E.....	420,407	443,759	457,014	467,695	467,192	459,559	462,508	466,887	475,750
U.S. citizens and permanent residents, all fields.....	556,639	587,615	613,236	628,423	631,596	627,394	635,459	644,156	656,430
Science and engineering.....	142,495	151,545	163,766	169,639	174,421	178,911	184,246	189,185	192,864
Sciences.....	133,012	142,351	154,609	160,129	164,576	168,536	173,565	178,401	182,163
Physical sciences <sup>a</sup> .....	4,914	5,011	5,420	5,575	6,026	6,566	6,938	7,184	7,347
Mathematics.....	6,611	6,776	6,694	6,804	6,479	6,206	5,853	5,725	5,581
Computer science.....	7,780	6,940	6,629	6,309	6,386	6,407	6,132	6,241	6,623
Agricultural sciences.....	2,968	3,099	3,910	4,266	4,907	5,627	6,479	7,238	7,692
Biological sciences.....	18,973	20,117	22,214	24,118	26,319	29,189	32,057	34,431	36,322
Psychology.....	38,254	42,225	46,417	48,612	50,371	52,253	53,122	54,449	54,526
Social sciences.....	53,512	58,183	63,325	64,445	64,088	62,288	62,984	63,133	64,072
Engineering.....	9,483	9,194	9,157	9,510	9,845	10,375	10,681	10,784	10,701
Non-S&E.....	414,144	436,070	449,470	458,784	457,175	448,483	451,213	454,971	463,566
Whites, non-Hispanic, all fields.....	455,662	481,618	498,936	504,363	497,913	485,630	484,996	485,218	489,011
Science and engineering.....	112,550	119,503	128,394	131,108	132,371	133,042	135,193	136,131	136,825
Sciences.....	105,589	113,033	121,881	124,499	125,514	126,101	128,072	129,086	129,912
Physical sciences <sup>a</sup> .....	3,876	3,942	4,248	4,327	4,658	4,946	5,122	5,225	5,276
Mathematics.....	5,512	5,530	5,468	5,538	5,169	4,887	4,584	4,399	4,194
Computer science.....	4,944	4,433	4,273	3,826	3,794	3,739	3,546	3,556	3,679
Agricultural sciences.....	2,704	2,812	3,542	3,875	4,400	4,968	5,678	6,290	6,617
Biological sciences.....	14,326	15,090	16,476	17,787	19,060	20,838	22,615	23,937	24,946
Psychology.....	31,504	34,857	38,059	39,261	39,979	40,673	40,735	40,826	40,307
Social sciences.....	42,723	46,369	49,815	49,885	48,454	46,050	45,792	44,853	44,893
Engineering.....	6,961	6,470	6,513	6,609	6,857	6,941	7,121	7,045	6,913
Non-S&E.....	343,112	362,115	370,542	373,255	365,542	352,588	349,803	349,087	352,186

See explanatory information and SOURCE at end of table.

Appendix table 3-15

**Bachelor's degrees awarded to women, by citizenship, race/ethnicity, and field: 1990–98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians/Pacific Islanders, all fields.....	18,930	20,952	23,426	25,768	28,255	30,947	33,163	35,626	37,400
Science and engineering.....	7,909	8,610	9,437	10,372	11,453	13,089	14,016	15,225	16,073
Sciences.....	6,724	7,359	8,239	9,095	10,172	11,644	12,580	13,751	14,506
Physical sciences <sup>a</sup> .....	345	377	386	423	448	563	651	739	773
Mathematics.....	383	433	371	413	403	446	396	383	394
Computer science..	809	742	709	753	771	782	751	837	882
Agricultural sciences.....	63	71	75	85	91	157	173	232	253
Biological sciences.....	1,672	1,823	2,172	2,470	2,967	3,576	4,080	4,528	4,686
Psychology.....	1,139	1,321	1,530	1,800	1,970	2,362	2,541	2,862	3,044
Social sciences.....	2,313	2,592	2,996	3,151	3,522	3,758	3,988	4,170	4,474
Engineering.....	1,185	1,251	1,198	1,277	1,281	1,445	1,436	1,474	1,567
Non-S&E.....	11,021	12,342	13,989	15,396	16,802	17,858	19,147	20,401	21,327
Blacks, non-Hispanic, all fields.....	36,711	40,771	44,793	48,293	52,210	54,289	57,331	59,341	62,225
Science and engineering.....	10,400	11,539	13,056	14,322	15,483	16,401	17,355	18,497	19,248
Sciences.....	9,744	10,794	12,308	13,509	14,608	15,402	16,319	17,440	18,207
Physical sciences <sup>a</sup> .....	358	362	435	466	457	539	618	644	606
Mathematics.....	378	431	530	521	535	519	513	561	542
Computer science.....	1,173	1,026	998	1,164	1,237	1,257	1,197	1,158	1,257
Agricultural sciences.....	61	62	93	93	131	142	176	201	237
Biological sciences.....	1,336	1,415	1,636	1,856	2,053	2,250	2,575	2,819	3,102
Psychology.....	2,356	2,809	3,197	3,519	4,004	4,339	4,610	5,056	5,308
Social sciences.....	4,082	4,689	5,419	5,890	6,191	6,356	6,630	7,001	7,155
Engineering.....	656	745	748	813	875	999	1,036	1,057	1,041
Non-S&E.....	26,311	29,232	31,737	33,971	36,727	37,888	39,976	40,844	42,977
Hispanics, all fields.....	25,181	28,246	30,981	34,020	36,823	38,816	41,680	44,388	46,409
Science and engineering.....	6,484	7,463	8,661	9,282	10,339	11,159	12,199	13,222	14,103
Sciences.....	6,008	6,936	8,115	8,676	9,691	10,403	11,365	12,293	13,157
Physical sciences <sup>a</sup> .....	211	215	220	238	318	363	384	385	440
Mathematics.....	164	221	203	197	243	221	231	241	304
Computer science.....	416	477	449	396	416	431	456	426	490
Agricultural sciences.....	74	89	89	87	143	158	223	264	314
Biological sciences.....	1,164	1,245	1,434	1,508	1,603	1,750	1,961	2,195	2,460
Psychology.....	1,718	1,989	2,421	2,659	2,994	3,377	3,710	3,997	4,127
Social sciences.....	2,261	2,700	3,299	3,591	3,974	4,103	4,400	4,785	5,022
Engineering.....	476	527	546	606	648	756	834	929	946
Non-S&E.....	18,697	20,783	22,320	24,738	26,484	27,657	29,481	31,166	32,306

See explanatory information and SOURCE at end of table.

Appendix table 3-15

**Bachelor's degrees awarded to women, by citizenship, race/ethnicity, and field: 1990–98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
American Indians/Alaskan									
Natives, all fields.....	2,438	2,591	2,979	3,173	3,502	3,785	4,002	4,323	4,627
Science and engineering.....	581	653	776	918	999	1,049	1,160	1,298	1,320
Sciences.....	558	626	745	884	960	1,004	1,112	1,231	1,273
Physical sciences <sup>a</sup> .....	21	23	25	32	31	32	30	43	41
Mathematics.....	22	25	24	28	30	29	23	28	27
Computer science.....	30	31	31	28	19	37	39	28	34
Agricultural sciences.....	21	20	17	22	43	42	58	70	68
Biological sciences.....	58	92	88	108	134	157	173	183	208
Psychology.....	143	166	221	242	281	287	338	372	368
Social sciences.....	263	269	339	424	422	420	451	507	527
Engineering.....	23	27	31	34	39	45	48	67	47
Non-S&E.....	1,857	1,938	2,203	2,255	2,503	2,736	2,842	3,025	3,307
Unknown race/ethnicity, all fields.....	17,717	13,437	12,121	12,806	12,893	13,927	14,287	15,260	16,758
Science and engineering.....	4,571	3,777	3,442	3,637	3,776	4,171	4,323	4,812	5,295
Sciences.....	4,389	3,603	3,321	3,466	3,631	3,982	4,117	4,600	5,108
Physical sciences <sup>a</sup> .....	103	92	106	89	114	123	133	148	211
Mathematics.....	152	136	98	107	99	104	106	113	120
Computer science.....	408	231	169	142	149	161	143	236	281
Agricultural sciences.....	45	45	94	104	99	160	171	181	203
Biological sciences.....	417	452	408	389	502	618	653	769	920
Psychology.....	1,394	1,083	989	1,131	1,143	1,215	1,188	1,336	1,372
Social sciences.....	1,870	1,564	1,457	1,504	1,525	1,601	1,723	1,817	2,001
Engineering.....	182	174	121	171	145	189	206	212	187
Non-S&E.....	13,146	9,660	8,679	9,169	9,117	9,756	9,964	10,448	11,463
Temporary residents, all fields.....	9,645	11,430	11,441	13,319	14,484	15,896	16,356	17,151	17,435
Science and engineering.....	3,382	3,741	3,897	4,408	4,467	4,820	5,061	5,235	5,251
Sciences.....	2,892	3,271	3,426	3,944	3,919	4,254	4,441	4,559	4,623
Physical sciences <sup>a</sup> .....	180	197	190	239	246	250	249	240	246
Mathematics.....	200	204	234	207	198	235	172	206	164
Computer science.....	594	574	555	603	606	627	607	568	622
Agricultural sciences.....	60	67	70	118	89	88	112	92	124
Biological sciences.....	436	519	514	648	580	659	752	791	743
Psychology.....	365	513	489	610	648	710	741	794	874
Social sciences.....	1,057	1,197	1,374	1,519	1,552	1,685	1,808	1,868	1,850
Engineering.....	490	470	471	464	548	566	620	676	628
Non-S&E.....	6,263	7,689	7,544	8,911	10,017	11,076	11,295	11,916	12,184

<sup>a</sup>In this table, the physical sciences include the earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry. See notes for more information.

**NOTES:** Data on race/ethnicity are for U.S. citizens and permanent residents only and do not include students on temporary visas. Because these data were collected on broad fields of study only until 1994, the trend data could not be adjusted to the exact field taxonomies used by the National Science Foundation.

**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

Appendix table 3-16

**Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1990–98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all fields.....	495,867	508,952	525,395	537,536	537,061	531,146	528,000	525,282	525,714
Science and engineering.....	199,916	201,499	209,270	214,388	216,492	216,078	216,614	214,329	213,171
Sciences.....	145,186	148,977	157,000	161,692	163,923	163,689	164,849	163,483	163,630
Physical sciences <sup>a</sup> .....	11,109	11,199	11,466	11,877	12,253	12,559	12,666	12,306	12,001
Mathematics.....	7,863	7,804	7,923	7,859	7,754	7,318	7,176	6,938	6,618
Computer science.....	19,321	17,896	17,670	17,565	17,466	17,628	17,666	18,166	19,796
Agricultural sciences.....	5,594	5,477	6,512	7,443	8,169	9,132	10,078	10,336	10,395
Biological sciences.....	18,631	19,715	21,107	23,111	25,314	26,956	29,189	29,839	29,982
Psychology.....	15,399	16,155	17,137	18,029	18,749	19,638	19,965	19,491	19,057
Social sciences.....	67,269	70,731	75,185	75,808	74,218	70,458	68,109	66,407	65,781
Engineering.....	54,730	52,522	52,270	52,696	52,569	52,389	51,765	50,846	49,541
Non-S&E.....	295,951	307,453	316,125	323,148	320,569	315,068	311,386	310,953	312,543
U.S. citizens and permanent residents, all fields.....	478,959	490,725	508,289	518,484	517,318	510,030	506,569	503,659	504,262
Science and engineering.....	190,980	192,516	200,929	204,994	207,030	206,144	206,828	204,767	203,694
Sciences.....	140,677	144,106	152,411	156,339	158,453	157,999	159,205	158,042	158,168
Physical sciences <sup>a</sup> .....	10,694	10,788	11,049	11,352	11,786	12,086	12,229	11,875	11,572
Mathematics.....	7,539	7,430	7,565	7,514	7,390	6,960	6,790	6,618	6,326
Computer science.....	17,849	16,433	16,251	15,964	15,799	15,960	16,093	16,735	18,289
Agricultural sciences.....	5,380	5,274	6,379	7,212	8,012	8,962	9,918	10,173	10,225
Biological sciences.....	18,200	19,171	20,628	22,542	24,739	26,334	28,576	29,170	29,303
Psychology.....	15,239	15,977	16,962	17,809	18,542	19,406	19,690	19,236	18,761
Social sciences.....	65,776	69,033	73,577	73,946	72,185	68,291	65,909	64,235	63,692
Engineering.....	50,303	48,410	48,518	48,655	48,577	48,145	47,623	46,725	45,526
Non-S&E.....	287,979	298,209	307,360	313,490	310,288	303,886	299,741	298,892	300,568
Whites, non-Hispanic, all fields.....	401,024	410,745	422,517	427,240	420,211	407,155	399,132	392,541	389,007
Science and engineering.....	157,675	158,687	164,220	166,063	165,245	161,731	159,889	156,121	153,382
Sciences.....	117,142	119,995	125,707	127,819	127,415	124,946	123,912	121,542	119,762
Physical sciences <sup>a</sup> .....	9,179	9,203	9,430	9,614	9,958	10,006	9,966	9,695	9,290
Mathematics.....	6,253	6,119	6,255	6,131	5,920	5,456	5,239	5,085	4,851
Computer science.....	13,974	12,916	12,571	12,329	12,022	11,793	11,924	12,070	12,991
Agricultural sciences.....	4,954	4,892	5,840	6,681	7,333	8,152	8,968	9,226	9,215
Biological sciences.....	14,488	15,174	16,030	17,293	18,882	19,790	21,065	21,388	20,908
Psychology.....	12,632	13,277	14,007	14,502	14,891	15,241	15,170	14,520	13,918
Social sciences.....	55,662	58,414	61,574	61,269	58,409	54,508	51,580	49,558	48,589
Engineering.....	40,533	38,692	38,513	38,244	37,830	36,785	35,977	34,579	33,620
Non-S&E.....	243,349	252,058	258,297	261,177	254,966	245,424	239,243	236,420	235,625

See explanatory information and SOURCE at end of table.

Appendix table 3-16

**Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1990-98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians/Pacific Islanders, all fields.....	19,097	20,773	23,190	24,819	26,420	28,348	29,954	31,732	32,588
Science and engineering.....	11,528	11,942	13,198	14,132	14,967	16,039	17,015	17,914	18,495
Sciences.....	6,701	6,973	8,131	9,002	9,732	10,699	11,652	12,303	13,060
Physical sciences <sup>a</sup> .....	592	606	615	675	648	784	908	881	903
Mathematics.....	491	482	486	502	523	519	539	494	462
Computer science..	1,335	1,268	1,373	1,492	1,476	1,583	1,697	1,930	2,276
Agricultural sciences.....	63	57	79	78	82	130	139	169	191
Biological sciences.....	1,573	1,736	2,230	2,633	2,992	3,467	3,878	4,007	4,181
Psychology.....	491	564	620	738	807	969	1,125	1,205	1,223
Social sciences.....	2,156	2,260	2,728	2,884	3,204	3,247	3,366	3,617	3,824
Engineering.....	4,827	4,969	5,067	5,130	5,235	5,340	5,363	5,611	5,435
Non-S&E.....	7,569	8,831	9,992	10,687	11,453	12,309	12,939	13,818	14,093
Blacks, non-Hispanic, all fields.....	22,590	24,238	26,518	28,374	30,106	30,998	32,223	32,726	33,653
Science and engineering.....	7,830	8,448	9,375	10,099	10,806	11,127	11,700	11,947	12,150
Sciences.....	6,414	6,964	7,761	8,335	9,022	9,281	9,736	9,928	10,173
Physical sciences <sup>a</sup> .....	292	391	381	370	464	495	482	466	521
Mathematics.....	342	380	374	444	457	476	468	510	488
Computer science.....	1,074	971	1,092	1,049	1,161	1,241	1,218	1,212	1,323
Agricultural sciences.....	110	100	113	126	137	121	187	186	189
Biological sciences.....	658	696	749	883	927	981	1,236	1,304	1,448
Psychology.....	794	879	982	1,099	1,232	1,402	1,418	1,591	1,544
Social sciences.....	3,144	3,547	4,070	4,364	4,644	4,565	4,727	4,659	4,660
Engineering.....	1,416	1,484	1,614	1,764	1,784	1,846	1,964	2,019	1,977
Non-S&E.....	14,760	15,790	17,143	18,275	19,300	19,871	20,523	20,779	21,503
Hispanics, all fields.....	18,683	20,781	22,026	23,825	25,860	27,875	29,335	30,550	31,716
Science and engineering.....	7,434	7,888	8,730	9,160	10,190	11,031	11,592	12,044	12,622
Sciences.....	5,399	5,849	6,543	6,805	7,695	8,136	8,695	8,848	9,443
Physical sciences <sup>a</sup> .....	311	318	326	361	415	437	488	468	474
Mathematics.....	249	259	279	273	300	315	354	340	338
Computer science.....	669	738	724	700	719	876	824	841	920
Agricultural sciences.....	144	124	125	130	193	228	283	297	318
Biological sciences.....	955	1,019	1,043	1,144	1,298	1,340	1,560	1,598	1,823
Psychology.....	687	757	826	928	996	1,166	1,326	1,285	1,382
Social sciences.....	2,384	2,634	3,220	3,269	3,774	3,774	3,860	4,019	4,188
Engineering.....	2,035	2,039	2,187	2,355	2,495	2,895	2,897	3,196	3,179
Non-S&E.....	11,249	12,893	13,296	14,665	15,670	16,844	17,743	18,506	19,094

See explanatory information and SOURCE at end of table.

**Appendix table 3-16**  
**Bachelor's degrees awarded to men, by field, citizenship, and race/ethnicity: 1990–98**

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Citizenship, race/ethnicity, and field	1990	1991	1992	1993	1994	1995	1996	1997	1998
American Indians/Alaskan									
Natives, all fields.....	1,774	1,895	2,151	2,401	2,562	2,669	2,811	2,915	3,079
Science and engineering.....	690	691	785	901	1,005	1,077	1,108	1,121	1,213
Sciences.....	567	560	634	759	826	901	913	926	1,007
Physical sciences <sup>a</sup> .....	52	46	38	61	52	66	74	57	65
Mathematics.....	23	18	22	27	29	29	30	28	39
Computer science.....	54	49	48	53	59	73	50	69	72
Agricultural sciences.....	38	33	43	42	66	82	81	78	85
Biological sciences.....	72	84	93	103	112	128	143	156	191
Psychology.....	68	69	90	93	113	120	132	124	147
Social sciences.....	260	261	300	380	395	403	403	414	408
Engineering.....	123	131	151	142	179	176	195	195	206
Non-S&E.....	1,084	1,204	1,366	1,500	1,557	1,592	1,703	1,794	1,866
Unknown race/ethnicity, all fields.....	15,791	12,293	11,887	11,825	12,159	12,985	13,114	13,195	14,219
Science and engineering.....	5,823	4,860	4,621	4,639	4,817	5,139	5,524	5,620	5,832
Sciences.....	4,454	3,765	3,635	3,619	3,763	4,036	4,297	4,495	4,723
Physical sciences <sup>a</sup> .....	268	224	259	271	249	298	311	308	319
Mathematics.....	181	172	149	137	161	165	160	161	148
Computer science.....	743	491	443	341	362	394	380	613	707
Agricultural sciences.....	71	68	179	155	201	249	260	217	227
Biological sciences.....	454	462	483	486	528	628	694	717	752
Psychology.....	567	431	437	449	503	508	519	511	547
Social sciences.....	2,170	1,917	1,685	1,780	1,759	1,794	1,973	1,968	2,023
Engineering.....	1,369	1,095	986	1,020	1,054	1,103	1,227	1,125	1,109
Non-S&E.....	9,968	7,433	7,266	7,186	7,342	7,846	7,590	7,575	8,387
Temporary residents, all fields.....	16,908	18,227	17,106	19,052	19,743	21,116	21,431	21,623	21,452
Science and engineering.....	8,936	8,983	8,341	9,394	9,462	9,934	9,786	9,562	9,477
Sciences.....	4,509	4,871	4,589	5,353	5,470	5,690	5,644	5,441	5,462
Physical sciences <sup>a</sup> .....	2,856	2,995	2,806	3,271	3,230	3,291	3,169	3,014	3,077
Mathematics.....	324	374	358	345	364	358	386	320	292
Computer science.....	1,472	1,463	1,419	1,601	1,667	1,668	1,573	1,431	1,507
Agricultural sciences.....	214	203	133	231	157	170	160	163	170
Biological sciences.....	431	544	479	569	575	622	613	669	679
Psychology.....	160	178	175	220	207	232	275	255	296
Social sciences.....	1,493	1,698	1,608	1,862	2,033	2,167	2,200	2,172	2,089
Engineering.....	4,427	4,112	3,752	4,041	3,992	4,244	4,142	4,121	4,015
Non-S&E.....	7,972	9,244	8,765	9,658	10,281	11,182	11,645	12,061	11,975

<sup>a</sup>In this table, the physical sciences include the earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry. See notes for more information.

**NOTES:** Data on race/ethnicity are for U.S. citizens and permanent residents only and do not include students on temporary visas. Because these data were collected on broad fields of study only until 1994, the trend data could not be adjusted to the exact field taxonomies used by the National Science Foundation.

**SOURCE:** Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, various years.

Appendix table 3-17  
**Bachelor's degrees awarded, by sex, citizenship, race/ethnicity, and S&E field: 1998**

Page 1 of 2

Sex, citizenship, and race/ethnicity	Total, all fields	Total, S&E	Physical sciences	Earth, atmospheric & ocean sciences	Mathematics	Computer science	Agricultural sciences	Biological sciences	Psychology	Social sciences	Engineering
Total.....	1,199,579	390,618	15,273	4,321	12,094	27,674	17,967	67,112	74,457	110,806	60,914
White, non-Hispanic.....	878,018	272,561	10,763	3,803	8,903	17,069	15,616	45,912	54,225	75,696	40,574
Asian/Pacific Islander.....	69,988	34,004	1,584	92	834	3,220	439	8,869	4,267	7,697	7,002
Black, non-Hispanic.....	95,878	30,751	1,057	70	966	2,666	409	4,553	6,852	11,159	3,019
Hispanic.....	78,125	25,712	796	118	604	1,473	631	4,283	5,509	8,173	4,125
American Indian/Alaskan Native.....	7,706	2,392	81	25	65	112	151	399	515	790	254
Other/unknown race/ethnicity.....	30,977	10,489	399	131	269	997	428	1,673	1,919	3,376	1,297
Temporary resident.....	38,887	14,709	593	82	453	2,137	293	1,423	1,170	3,915	4,643
Men.....	525,714	200,221	9,279	2,722	6,435	20,235	10,224	30,011	19,057	52,683	49,575
White, non-Hispanic.....	389,007	142,372	6,851	2,439	4,739	13,274	9,062	20,935	13,918	37,502	33,652
Asian/Pacific Islander.....	32,588	18,176	858	45	444	2,328	188	4,181	1,223	3,474	5,435
Black, non-Hispanic.....	33,653	11,698	488	33	462	1,372	179	1,448	1,544	4,195	1,977
Hispanic.....	31,716	11,968	412	62	318	961	318	1,823	1,382	3,513	3,179
American Indian/Alaskan Native.....	3,079	1,122	53	12	38	76	83	191	147	315	207
Other/unknown race/ethnicity.....	14,219	5,448	236	83	148	711	225	753	547	1,635	1,110
Temporary resident.....	21,452	9,437	381	48	286	1,513	169	680	296	2,049	4,015
Women.....	673,865	190,397	5,994	1,599	5,659	7,439	7,743	37,101	55,400	58,123	11,339
White, non-Hispanic.....	489,011	130,189	3,912	1,364	4,164	3,795	6,554	24,977	40,307	38,194	6,922
Asian/Pacific Islander.....	37,400	15,828	726	47	390	892	251	4,688	3,044	4,223	1,567
Black, non-Hispanic.....	62,225	19,053	569	37	504	1,294	230	3,105	5,308	6,964	1,042
Hispanic.....	46,409	13,744	384	56	286	512	313	2,460	4,127	4,660	946
American Indian/Alaskan Native.....	4,627	1,270	28	13	27	36	68	208	368	475	47
Other/unknown race/ethnicity.....	16,758	5,041	163	48	121	286	203	920	1,372	1,741	187
Temporary resident.....	17,435	5,272	212	34	167	624	124	743	874	1,866	628

See explanatory information and SOURCE at end of table.

Appendix table 3-17  
**Bachelor's degrees awarded, by sex, citizenship, race/ethnicity, and S&E field: 1998**

Page 2 of 2

Sex, citizenship, and race/ethnicity	Total, all fields	Total, S&E	Physical sciences	Earth, atmospheric & ocean sciences	Mathematics	Computer science	Agricultural sciences	Biological sciences	Psychology	Social sciences	Engineering
Percent female											
Total.....	56.2	48.7	39.2	37.0	46.8	26.9	43.1	55.3	74.4	52.5	18.6
White, non-Hispanic.....	55.7	47.8	36.3	35.9	46.8	22.2	42.0	54.4	74.3	50.5	17.1
Asian/Pacific Islander.....	53.4	46.5	45.8	51.1	46.8	27.7	57.2	52.9	71.3	54.9	22.4
Black, non-Hispanic.....	64.9	62.0	53.8	52.9	52.2	48.5	56.2	68.2	77.5	62.4	34.5
Hispanic.....	59.4	53.5	48.2	47.5	47.4	34.8	49.6	57.4	74.9	57.0	22.9
American Indian/Alaskan Native.....	60.0	53.1	34.6	52.0	41.5	32.1	45.0	52.1	71.5	60.1	18.5
Other/unknown race/ethnicity.....	54.1	48.1	40.9	36.6	45.0	28.7	47.4	55.0	71.5	51.6	14.4
Temporary resident.....	44.8	35.8	35.8	41.5	36.9	29.2	42.3	52.2	74.7	47.7	13.5

NOTE: Data on race/ethnicity are for U.S. citizens and permanent residents only and do not include students on temporary visas.

SOURCE: Tabulations by National Science Foundation, Division of Science Resources Statistics; data from U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey.

*Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002*

Appendix table 3-18

**Undergraduate borrowing of 1997 and 1998 S&E bachelor's degree recipients, by sex,  
race/ethnicity, and disability status**

Sex, race/ethnicity, and disability status	Percent that borrowed	Median debt in 1999 (dollars)	Mean debt in 1999 (dollars)
Total.....	60.3	12,000	13,883
Male.....	59.8	11,200	13,491
Female.....	60.8	13,000	14,256
White, non-Hispanic.....	58.6	12,000	13,804
Asian/Pacific Islander.....	56.0	10,000	13,457
Black, non-Hispanic.....	76.0	14,000	15,728
Hispanic.....	66.4	11,000	12,951
American Indian/Alaskan Native.....	80.5	8,400	14,848
Without disabilities.....	60.0	12,000	13,879
With disabilities.....	68.0	10,000	13,973

SOURCE: National Science Foundation, Division of Science Resources Statistics, National Survey of Recent College Graduates.

*Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002*